

WEST VIRGINIA

Science and Engineering Profile

	W. Virginia	U.S.	Rank		W. Virginia	U.S.	Rank
Doctoral scientists, 1993	1,546	430,332	45	Total R&D performance, 1993 (millions)	\$280	\$161,427	44
Doctoral engineers, 1993	372	81,293	37	Industry R&D, 1993 (millions)	\$100	\$117,622	43
S&E doctorates awarded, 1993	67	25,409	41	Academic R&D, 1993 (millions)	\$55	\$19,489	43
of which, in life sciences	36%	24%		of which, in life sciences	47%	55%	
in engineering	25%	22%		in engineering	20%	16%	
in psychology	18%	13%		in environmental sciences	12%	7%	
S&E postdoctorates, 1993				Higher education current-fund			
in doctorate-granting institutions	42	34,394	46	expenditures, 1993 (millions)	\$739	\$163,994	40
S&E graduate students, 1993				Number of SBIR awards, 1990-93	4	13,995	47
in doctorate-granting institutions	2,214	438,128	38	Patents issued to state residents, 1994	142	56,039	40
Population, 1994 (000s)	1,822	260,341	35	Gross state product, 1992 (billions)	\$30.7	\$5,994.1	40
Civilian labor force, 1994 (000s)	788	131,013	36	of which, agriculture	1%	2%	
Personal income per capita, 1994	\$17,208	\$21,809	47	manufacturing, mining, construction	30%	23%	
Federal spending				transportation, communication, utilities	13%	9%	
Total expenditures 1994 (millions)	\$9,550	\$1,284,896	36	wholesale and retail trade	14%	16%	
R&D obligations 1993 (millions)	\$206	\$65,394	35	finance, insurance, real estate	14%	18%	
				services	15%	20%	
				government	12%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Federal Obligations for Research and Development in West Virginia by Agency and Performer: Fiscal Year 1993

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
Total, all agencies	206,208	93,059	29,215	39,171	38,994	3,503	2,266	35
Department of Agriculture	20,612	14,673	0	0	4,718	1,211	10	23
Department of Commerce	0	0	0	0	0	0	0	na
Department of Defense	4,245	4	0	2,400	1,841	0	0	47
Department of Energy	104,424	61,976	0	34,992	5,913	1,543	0	14
Dept. of Health & Human Services	19,851	8,786	0	1,000	8,545	483	1,037	40
Department of the Interior	10,172	7,620	0	358	1,979	0	215	21
Department of Transportation	1,096	0	0	306	0	0	790	37
Environmental Protection Agency	214	0	0	0	0	0	214	48
Nat'l Aeronautics & Space Admin.	13,636	0	0	115	13,255	266	0	24
National Science Foundation	31,958	0	29,215	0	2,743	0	0	20
State rank	35	23	14	32	40	36	30	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.